Embed Testbed

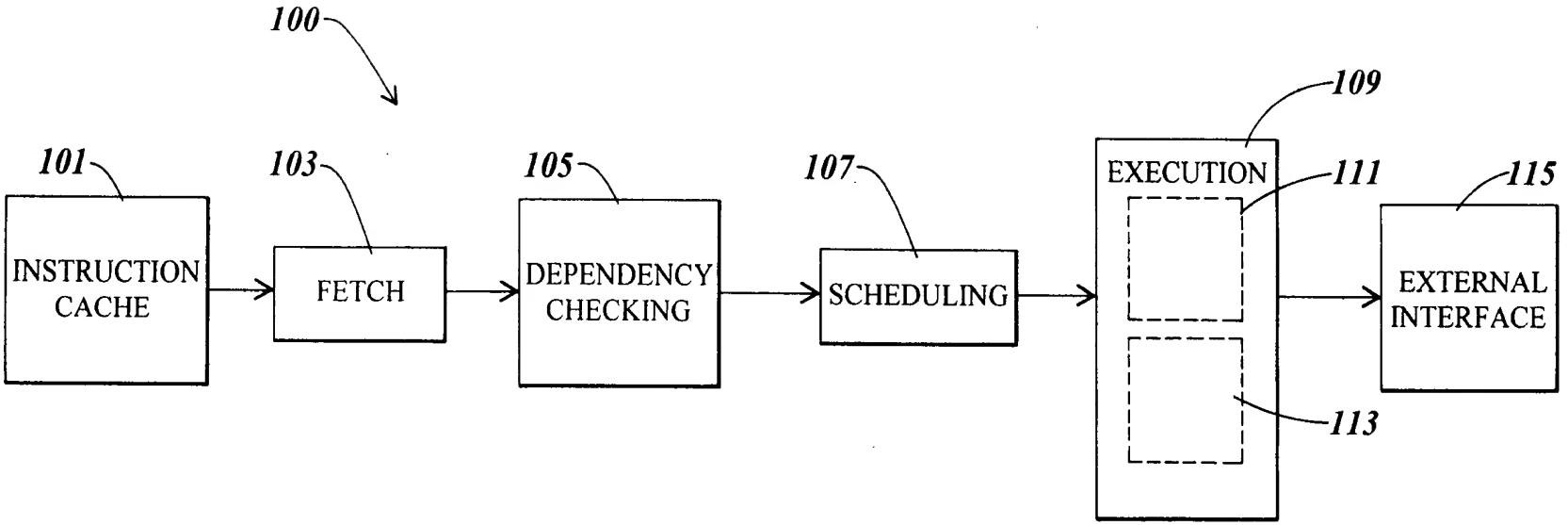

FIG. 1

IDENTIFICATION NUMBER (IID)				
1	ADD	R1,	R2,	R3
2	ADD	R3,	R4,	R5
3	ADD	R6,	R7,	R8
4	ADD	R8,	R9,	R10
5	ADD	R11,	R12,	R13
6	ADD	R5,	R10,	R14
.				
.				
.				

FIG. 2

IDENTIFICATION NUMBER (IID)							
1	[...	0	0	0	0	0	1]
2	[...	0	0	0	0	1	0]
3	[...	0	0	0	1	0	0]
4	[...	0	0	1	0	0	0]
5	[...	0	1	0	0	0	0]
6	[...	1	0	0	0	0	0]
.							
.							
.							

FIG. 3

IDENTIFICATION NUMBER	POSITION ... 6	5	4	3	2	1
1	[... 0	0	0	0	0	0]
2	[... 0	0	0	0	0	1]
3	[... 0	0	0	0	0	0]
4	[... 0	0	0	1	0	0]
5	[... 0	0	0	0	0	0]
6	[... 0	0	1	0	1	0]
⋮			⋮			

FIG. 4

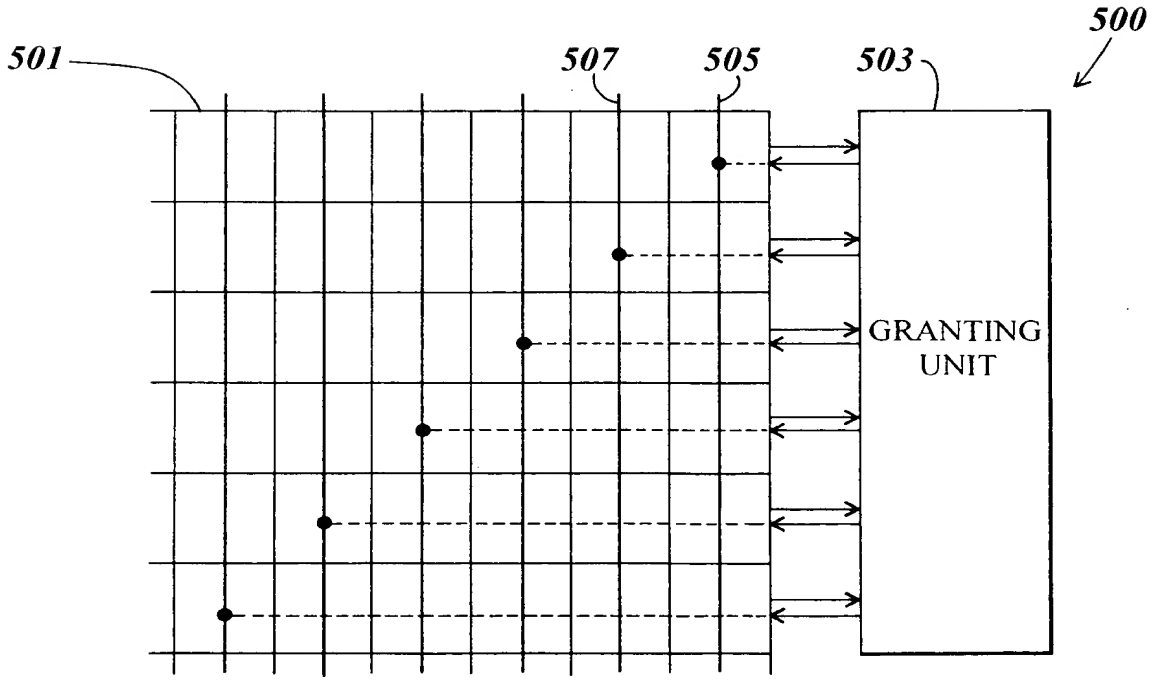

FIG. 5

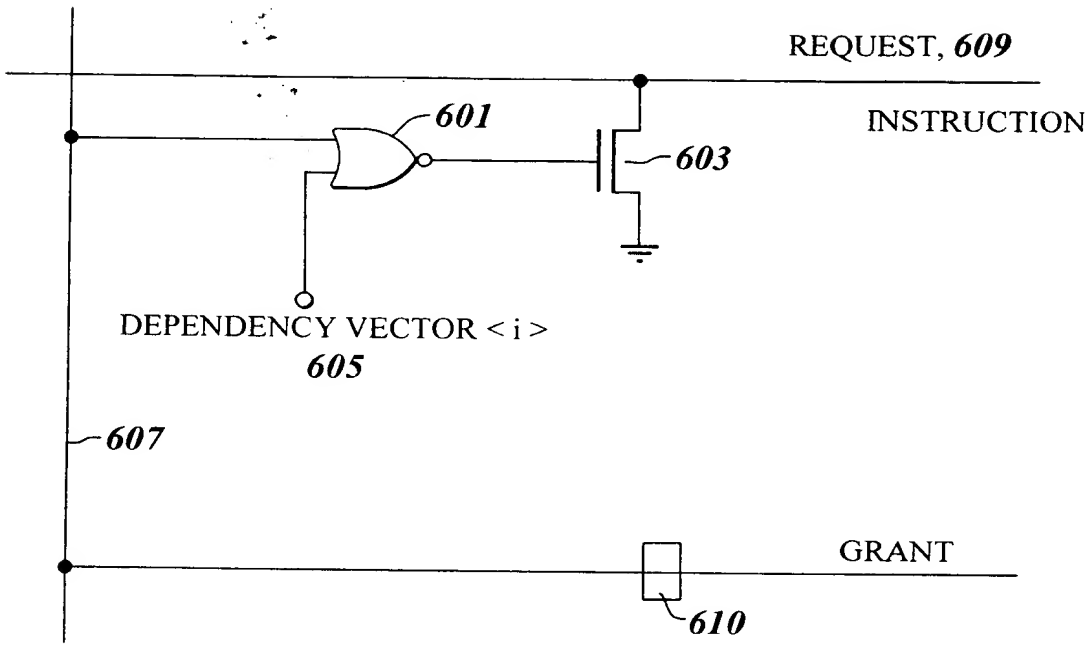
REQUEST, 609
INSTRUCTION
601
603
DEPENDENCY VECTOR < i >
605
607
GRANT
610

FIG. 6A

611

DEPENDENCY VECTOR	GRANT	REQUEST
0	0	1
0	1	1
1	0	0
1	1	1

FIG. 6B

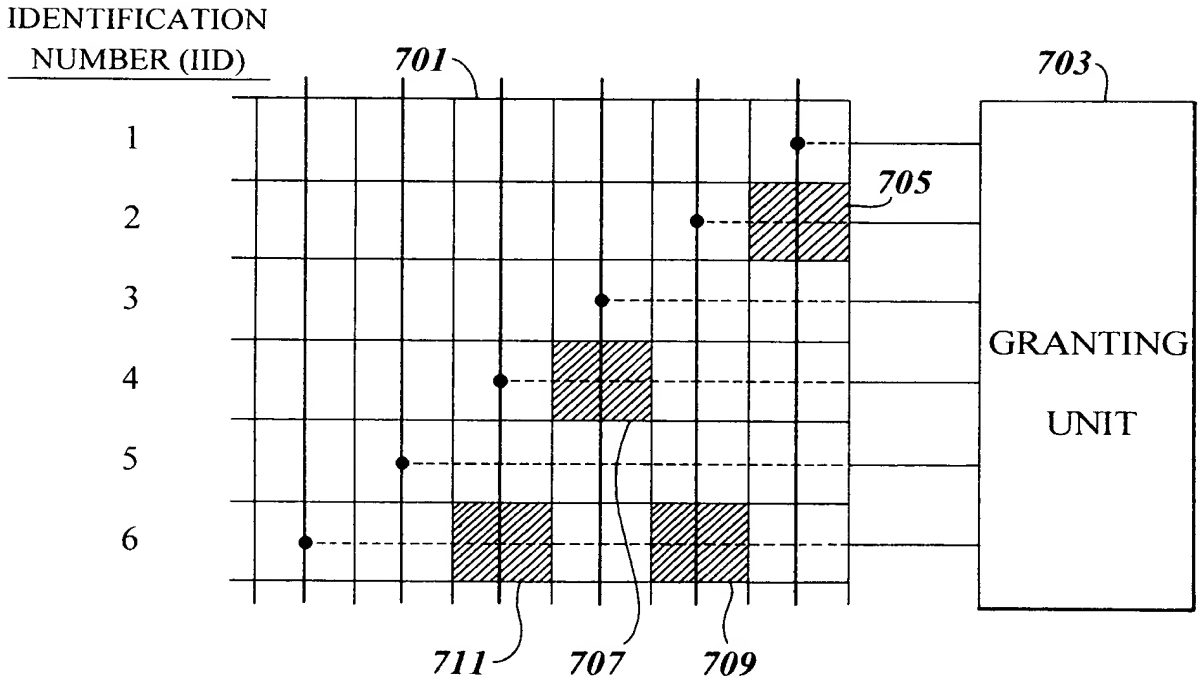

FIG. 7

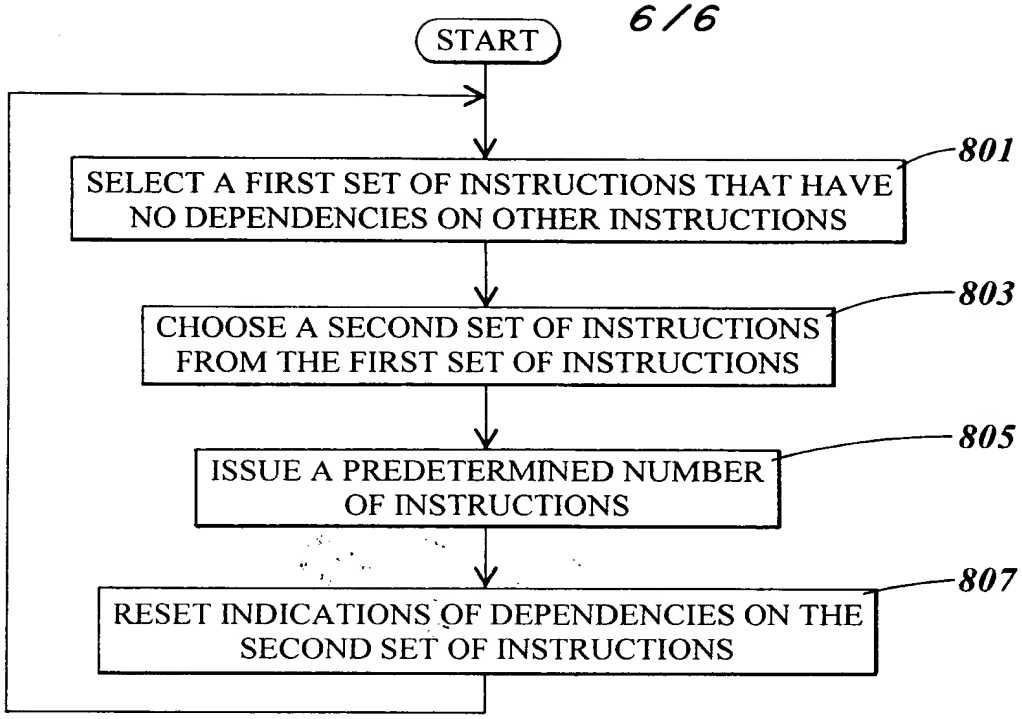
START
SELECT A FIRST SET OF INSTRUCTIONS THAT HAVE NO DEPENDENCIES ON OTHER INSTRUCTIONS
801
CHOOSE A SECOND SET OF INSTRUCTIONS FROM THE FIRST SET OF INSTRUCTIONS
803
ISSUE A PREDETERMINED NUMBER OF INSTRUCTIONS
805
RESET INDICATIONS OF DEPENDENCIES ON THE SECOND SET OF INSTRUCTIONS
807

FIG. 8

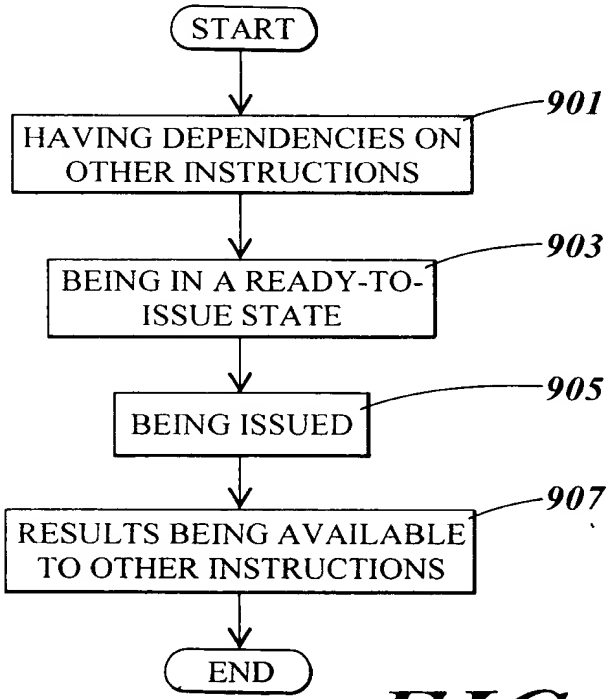
START
HAVING DEPENDENCIES ON OTHER INSTRUCTIONS
901
BEING IN A READY-TO-ISSUE STATE
903
BEING ISSUED
905
RESULTS BEING AVAILABLE TO OTHER INSTRUCTIONS
907
END

FIG. 9